

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD0501	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 0501 Ryer Island	U	20.26						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	9.59	0.49	11.55	57.02%	0.30			
Trim / Thin Trees	1.25	0.01	1.29	6.37%				
Encroachments	0.01		0.01	0.05%	0.09	0.01		
Animal Control	1.54		1.54	7.60%				
Erosion / Bank Caving	0.01		0.01	0.05%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.26		0.26	1.28%				
DWR UCIP Field Study					0.57	0.06		
<i>LMA Totals:</i>	12.66	0.50	14.66	72.37%	0.96	0.07	0.00	0.00
Unit No. 01 Steamboat Slough RB	Overall Unit Rating	Total Unit Miles						
RD0501	U	6.71						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	9.12	0.39	10.68	159.27%	0.28			
Trim / Thin Trees	0.76	0.01	0.80	11.93%				
Encroachments	0.01		0.01	0.15%		0.01		
Animal Control	0.51		0.51	7.61%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.19		0.19	2.83%				
DWR UCIP Field Study					0.15	0.02		
<i>Unit Totals:</i>	10.59	0.40	12.19	181.79%	0.43	0.03	0.00	0.00
Unit No. 02 Cache Slough LB	Overall Unit Rating	Total Unit Miles						
RD0501	A	3.56						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Trim / Thin Trees	0.02		0.02	0.56%				
Encroachments					0.09			
Animal Control	0.01		0.01	0.28%				
Erosion / Bank Caving	0.01		0.01	0.28%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.07		0.07	1.97%				
DWR UCIP Field Study					0.11	0.02		
<i>Unit Totals:</i>	0.11	0.00	0.11	3.09%	0.20	0.02	0.00	0.00

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Levee Inspections**

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Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 03 Miner Slough LB		Overall Unit Rating	Total Unit Miles						
RD0501		U	7.71						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	0.47	0.10	0.87	11.28%					
Trim / Thin Trees	0.45		0.45	5.84%					
Animal Control	1.02		1.02	13.23%					
<i>Supplemental</i>									
DWR UCIP Field Study					0.23	0.01			
<i>Unit Totals:</i>	1.94	0.10	2.34	30.35%	0.23	0.01	0.00	0.00	

Unit No. 04 Sutter Slough RB		Overall Unit Rating	Total Unit Miles						
RD0501		A	2.28						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation					0.02				
Trim / Thin Trees	0.02		0.02	0.88%					
<i>Supplemental</i>									
DWR UCIP Field Study					0.08	0.01			
<i>Unit Totals:</i>	0.02	0.00	0.02	0.88%	0.10	0.01	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

Waterway			Bank	Unit Miles
Unit No. 01 Steamboat Slough			Right	6.71
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/24/2016 - 3/24/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Nicolas Zepeda RD 501		Nicolas Zepeda RD 501	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start		Rating **	A	Issue No.	57	
LM End		Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Operations & Maintenance Manuals				°	
					°	
DWR ID	DWR_RD0501_01_f_2014_57					
Comment Code						
Inspector Comment						
District has the O&M Manual.						

No Photos

LM Start		Rating **	A	Issue No.	58	
LM End		Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				o	
					o	
DWR ID	DWR_RD0501_01_s_2012_58					
Comment Code						
Inspector Comment						
RD 501 has emergency supplies in storage.						

No Photos

LM Start		Rating **	A	Issue No.	59					
LM End		Issue Type +	Ma	Location *	WS					
Category	Earthen Levee			GPS Latitude/Longitude						
				Start	End					
Item	Flood Preparedness & Training				o					
					o					
DWR ID	DWR_RD0501_01_s_2012_59									
Comment Code										
Inspector Comment										
Crew members have been trained and are prepared for a flood.										

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.04	Rating **	M	Issue No.	44
LM End	2.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.254035 °	38.215490 °
				-121.601790 °	-121.607930 °
DWR ID	DWR_RD0501_01_f_2016_44				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
RD is mowing the landside slope once that's done they will start on the waterside slope, right now there are still tall weeds that were not mowed during this inspection.					

Photo 1 of 1 : FA_2016_RD0501_169_44_20161021_00060.jpg



RD 501 LOOKING DOWNSTREAM levee mile 0.04-2.68.

LM Start	0.04	Rating **	M	Issue No.	42
LM End	6.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.254035 °	38.185987 °
				-121.601790 °	-121.648192 °
DWR ID	DWR_RD0501_01_f_2016_42				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
RD is in process of mowing the landside during the time of this inspection. There are weeds that hasn't been mowed yet that will be.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.04	Rating **	M	Issue No.	984
LM End	0.04	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.254035 °	38.254035 °	
			-121.601757 °	-121.601757 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44878 DS_ID:21096 EP_NO: 3635 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Marker missing on waterward side--need to contact owner. FIELD_STRUCT_DESC: 2.5-inch steel conduit through the levee, 3.0 feet below the crown. Pole at landward toe. Rock revetment on waterward slope. (Permit No. 3635-1962) Abandoned and replaced by 3-inch conduit under Permit No. 5412 (1967). FS Date: 6/13/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.19	Rating **	U	Issue No.	995
LM End	0.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.252140 °	38.252140 °
				-121.602902 °	-121.602902 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50063

DS_ID:21030

EP_NO: 4581

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 8/22/2016 Sacramento County has re-paved road and patch is no longer present. Crossing remains to be Urgent due to the unknown condition of the section of the levee along pipe alignment. Unable to determine if any internal erosion is present along pipe.

According to LMA representative, Stacy Boyd, no additional sink holes have developed since 2013. No sink holes have been noticed since PVC pipe was sleeved through existing steel pipe. Permit authorizing work is not available. Need to identify current owner. Owner will need to coordinate with CVFPB to remove or abandon crossing per Title 23 requirements. (DWR UCIP - omagana)6/04/2013 Damage present on levee crown--unable to confirm if damage due to leak in pipe. Signs of repair work on crown, however, no permit found to document recent damage to levee or repair work. New PVC pipe has been sleeved through the existing 6-inch pipe. Unable to determine if crossing is still in use, if not, crossings needs to be removed according to CVFPB Title 23 requirements. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation pipe through the levee, 2.5 feet below the crown. 2-inch steel electrical conduit through levee. Cutoff wall around pipe at center of levee. Pump and gate valve in pump structure located on the waterside (WS) slope. Service pole is located on the landside (LS) slope. Pipe is exposed on both slopes. (6-inch pipe replaced previous USACE O&M 7-inch pipe, 6-inch pipe authorized under Permit No. 4581, 1964 - Walter Light)

[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 105, April 1959 (HLM 0.20)].

FS Date: 8/22/2016

Photo 1 of 2 : UCIP_FA_2016_50063_58923.jpg



View of crown at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.19	Rating **	U	Issue No.	995 (cont)
LM End	0.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.252140 °	38.252140 °
				-121.602902 °	-121.602902 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50063
DS_ID:21030
EP_NO: 4581
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Sacramento County has re-paved road and patch is no longer present. Crossing remains to be Urgent due to the unknown condition of the section of the levee along pipe alignment. Unable to determine if any internal erosion is present along pipe. According to LMA representative, Stacy Boyd, no additional sink holes have developed since 2013. No sink holes have been noticed since PVC pipe was sleeved through existing steel pipe. Permit authorizing work is not available. Need to identify current owner. Owner will need to coordinate with CVFPB to remove or abandon crossing per Title 23 requirements. (DWR UCIP - omagana)6/04/2013 Damage present on levee crown--unable to confirm if damage due to leak in pipe. Signs of repair work on crown, however, no permit found to document recent damage to levee or repair work. New PVC pipe has been sleeved through the existing 6-inch pipe. Unable to determine if crossing is still in use, if not, crossings needs to be removed according to CVFPB Title 23 requirements. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation pipe through the levee, 2.5 feet below the crown. 2-inch steel electrical conduit through levee. Cutoff wall around pipe at center of levee. Pump and gate valve in pump structure located on the waterside (WS) slope. Service pole is located on the landside (LS) slope. Pipe is exposed on both slopes. (6-inch pipe replaced previous USACE O&M 7-inch pipe, 6-inch pipe authorized under Permit No. 4581, 1964 - Walter Light)
[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 105, April 1959 (HLM 0.20)].
FS Date: 8/22/2016

Photo 2 of 2 : UCIP_FA_2016_50063_58922.jpg



Subsidence and patch work repair on crown.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.39	Rating **	M	Issue No.	980
LM End	0.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.249197 °	38.249197 °
				-121.603061 °	-121.603061 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32524					
DS_ID:21031					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of leaks through the slope. Recommend removing vegetation along pipe alignment for reinspection. Need to contact the owner to clear slope along crossing.					
FIELD_STRUCT_DESC: 20-inch and 2.5-inch pipes through the levee, both 7.8 feet below the crown. Pump in pump house on landward slope. Pipe exposed along waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.40).					
FS Date: 6/4/2013					

LM Start	0.39	Rating **	M	Issue No.	980 (cont)
LM End	0.39	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_32524_58928.jpg



View of crown

Photo 2 of 2 : UCIP_FA_2016_32524_58927.jpg



Overview of landside. Pump house and power pole visible on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.44	Rating **	M	Issue No.	985
LM End	0.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.248519 °	38.248519 °
				-121.602972 °	-121.602972 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41409 DS_ID:21032 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner and ask for emergency contact information and permit number. 8/21/13 Contacted Gas Control Division under the emergency contact No. 1-877-723-3344. Message has been forward to Brian Habersack at 916-859-4700, email: bhabersack@gasbiz.com. FIELD_STRUCT_DESC: 6-inch Steel Gas line through the levee 60-feet below the crown. Markers on both shoulders (Permit No. 17033, 2014). FS Date: 6/4/2013					

Photo 1 of 2 : UCIP_FA_2016_41409_58931.jpg



Overview of waterside at crossing. Marker on shoulder.

LM Start	0.44	Rating **	M	Issue No.	985 (cont)
LM End	0.44	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_41409_58930.jpg



Overview of landside at crossing. Marker on shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.68	Rating **	M	Issue No.	18
LM End	0.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.245010 °	38.244523 °
				-121.602955 °	-121.602940 °
DWR ID	DWR_RD0501_01_s_2012_18				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim the trees on the landside levee slope five feet above the ground.					

No Photos

LM Start	0.70	Rating **	M	Issue No.	986
LM End	0.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.244726 °	38.244726 °
				-121.602900 °	-121.602900 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44643 DS_ID:21089 EP_NO: 2683 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 2-inch steel water pipe and 1-inch steel electrical conduit through the levee, both 3.0 feet below the crown. Portion of pipe visible under oleanders on LS shoulder may be part of this crossing. No evidence remains on WS slope. (Permit No. 2683-1959, J. Gosner) FS Date: 4/21/2015					

Photo 1 of 2 : UCIP_FA_2016_44643_73842.jpg



Pipes visible under oleander on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.70	Rating **	M	Issue No.	986 (cont)	
LM End	0.70	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.244726 °	38.244726 °	
				-121.602900 °	-121.602900 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44643 DS_ID:21089 EP_NO: 2683 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 2-inch steel water pipe and 1-inch steel electrical conduit through the levee, both 3.0 feet below the crown. Portion of pipe visible under oleanders on LS shoulder may be part of this crossing. No evidence remains on WS slope. (Permit No. 2683-1959, J. Gosner) FS Date: 4/21/2015						

Photo 2 of 2 : UCIP_FA_2016_44643_73841.jpg



Pipes visible under oleander on LS shoulder.

LM Start	0.70	Rating **	M	Issue No.	71
LM End	1.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.244667 °	38.237470 °
				-121.602967 °	-121.604418 °
DWR ID	DWR_RD0501_01_s_2012_71				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
There are rodents present in this area, district need to place bait stations in this area.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

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Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.97	Rating **	M	Issue No.	992
LM End	0.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.240808 °	38.240808 °
				-121.603628 °	-121.603628 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50020
DS_ID:21034
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Crossing has been downgraded from Urgent to Non-Urgent -- no evidence of damage to levee is present. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Also will need to coordinate with owner to determine if permit was obtained for the modifications made to crossing (PVC pipe sleeved through existing pipe). (DWR UCIP - omagana)4/21/2015 Unauthorized PVC pipe. Annular space not grouted. 14-inch pipe open on both ends. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through the levee, 3.2 feet below the crown. 10-inch polyvinyl chloride (PVC) pipe sleeved through 14-inch with a siphon breaker located on the landside (LS) shoulder. [Additional Reference(s): DWR Levee Log, 1980 and 2005. USACE Sacramento O&M Manual Unit No. 105, April 1959, (HLM 1.0)].
FS Date: 8/22/2016

LM Start	0.97	Rating **	M	Issue No.	992 (cont)
LM End	0.97	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_50020_75648.jpg



View of levee crown and LS shoulder.

Photo 2 of 2 : UCIP_FA_2016_50020_75647.jpg



View of levee crown looking at waterside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.84	Rating **	M	Issue No.	991
LM End	1.84	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.228373 °	38.228373 °
				-121.604120 °	-121.604120 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47516
DS_ID:21086
EP_NO: 13233
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Annular space between pipes not grouted. FPIIB Inspector Herman Phillips will contact owner regarding lack of permit for sand filters. Steel plate partially covers openings between pipes.
FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 2.5-feet below the crown. Cutoff wall around pipe at center of levee. Pump and check valve in pump house on waterward slope. Service pole on landward slope. (Permit No. 13233-1982) 8-inch steel irrigation pipe sleeved through 14-inch (under Permit No. 11813-1, 2013). A 1.5 and a 2.5-inch electrical conduit at same location. Siphon breaker on both shoulders.
FS Date: 4/21/2015

LM Start	1.84	Rating **	M	Issue No.	991 (cont)
LM End	1.84	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_47516_73857.jpg



Sand filter plant on LS toe.

Photo 2 of 2 : UCIP_FA_2016_47516_73856.jpg



8-inch steel pipe with vent/siphon breaker on LS shoulder. Pipe sleeved through 14-inch steel pipe. Electrical conduit visible next to pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	2.04	Rating **	C	Issue No.	26
LM End	2.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.225500 °	38.224738 °
				-121.603887 °	-121.603750 °
DWR ID	DWR_RD0501_01_s_2012_26				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

LM Start	2.23	Rating **	M	Issue No.	27
LM End	2.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.222758 °	38.222030 °
				-121.603348 °	-121.603303 °
DWR ID	DWR_RD0501_01_s_2012_27				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim trees to at least five feet above the ground.					

No Photos

LM Start	2.31	Rating **	M	Issue No.	116
LM End	2.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.221620 °	38.221620 °
				-121.603390 °	-121.603393 °
DWR ID	DWR_RD0501_01_f_2014_116				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Continue trimming the trees growth at this location to at least five feet above the ground.					

Photo 1 of 1 : FA_2016_RD0501_169_116_20161018_00010.jpg



Looking downstream at the woody tree growth on the landward levee slope. No new photo taken.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	2.32	Rating **	U	Issue No.	6
LM End	2.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.221455°	38.221455°
				-121.603508°	-121.603508°
DWR ID	DWR_RD0501_01_f_2015_6				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
This tree at this location is dead and poses a threat that could cause injury to persons or levee damage. No new photo taken.					

Photo 1 of 1 : FA_2016_RD0501_169_6_20161018_00005.jpg



This photo shows an old dead cotton wood tree at the landside levee toe.

LM Start	2.32	Rating **	M	Issue No.	45
LM End	2.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.221487 °	38.220132 °
				-121.603447 °	-121.604083 °
DWR ID	DWR_RD0501_01_f_2016_45				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	2.34	Rating **	M	Issue No.	987
LM End	2.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.221277 °	38.221277 °
				-121.603505 °	-121.603505 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44683 DS_ID:21021 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. Discarded pipe on WS slope should be removed. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 2.5-feet below the crown. Pump and gate valve in pump house on waterward slope. a 4'X4' concrete distribution box, power pole, and meter on LS toe (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.50). FS Date: 4/21/2015					

LM Start	2.34	Rating **	M	Issue No.	987 (cont)
LM End	2.34	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_44683_73882.jpg



Pipe visible on LS slope.

Photo 2 of 2 : UCIP_FA_2016_44683_73881.jpg



Pipe and pump house on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	2.55	Rating **	M	Issue No.	32
LM End	2.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.218470 °	38.217875 °
				-121.605105 °	-121.605532 °
DWR ID	DWR_RD0501_01_s_2012_32				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Continue trimming the tree at this location to at least five feet above the ground.					

No Photos

LM Start	2.67	Rating **	M	Issue No.	34
LM End	2.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.217030 °	38.216408 °
				-121.606303 °	-121.607057 °
DWR ID	DWR_RD0501_01_s_2012_34				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim the trees to at least five feet above the ground.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	2.82	Rating **	M	Issue No.	981
LM End	2.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.215351 °	38.215351 °
				-121.608013 °	-121.608013 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:32526

DS_ID:21022

EP_NO: 2742

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes.

Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Additional notes: pump was running during inspection, 16-inch pipe debris section located on landward side, view of standpipe and support structure on waterward side does not match structure description--need to determine if crossing has been altered.

FIELD_STRUCT_DESC: 16-inch drainpipe through the levee, 3.6 feet below the crown. Cutoff walls around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Pump house on landward shoulder. Pipe discharges into 48-inch pipe with screw gate on landward side. (Permit No. 2742-1959). Repairs made to pipe and a portion replaced, from landward shoulder to discharge end on waterward side, under Permit No. 15380 (1999). Rock revetment placed on waterward slope. Revegetation in progress on waterside.

FS Date: 6/4/2013

LM Start	2.82	Rating **	M	Issue No.	981 (cont)
LM End	2.82	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_32526_58933.jpg



Overview of crown at crossing, looking downstream.

Photo 2 of 2 : UCIP_FA_2016_32526_58935.jpg



Pump house on landward slope. An abandoned pipe section on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	2.85	Rating **	M	Issue No.	3
LM End	2.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.214838 °	38.214075 °
				-121.608129 °	-121.608750 °
DWR ID	DWR_RD0501_01_f_2016_3				
Comment Code					
Inspector Comment					
2009 - Rock is starting to unravel, probably from a tree pop-out, hard toe. 2015: No observed changes. [2015 Site ID: STM_18-9_R]					

Photo 1 of 1 : FA_2016_RD0501_169_3_20161018_00003.jpg



USACE 2013 Photo #1

LM Start	2.91	Rating **	M	Issue No.	37
LM End	2.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.214235 °	38.213547 °
				-121.608993 °	-121.609527 °
DWR ID	DWR_RD0501_01_s_2012_37				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	2.97	Rating **	M	Issue No.	988
LM End	2.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.213439 °	38.213439 °
				-121.609583 °	-121.609583 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44688					
DS_ID:21025					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: 2-inch galvanized iron irrigation pipe through the levee, 3.2 feet below the crown. 6-foot diameter steel standpipe at LS toe. Pipe may run parallel to levee crown to cross levee at site of 14-inch HLM: 2.98					
FS Date: 4/21/2015					

Photo 1 of 2 : UCIP_FA_2016_44688_73891.jpg



Pipe visible at LS shoulder. Pipe connects to top of steel standpipe at LS toe.

LM Start	2.97	Rating **	M	Issue No.	988 (cont)
LM End	2.97	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_44688_73890.jpg



Shutoff valve at LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.04	Rating **	M	Issue No.	2
LM End	3.11	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.212573 °	38.211596 °
				-121.609760 °	-121.609928 °
DWR ID	DWR_RD0501_01_f_2016_2				
Comment Code					
Inspector Comment					
2000 - Slow erosion of lower and mid-slope with rock bench at the low water line. 2015: No observed changes. [2015 Site ID: STM_18-8_R]					

Photo 1 of 1 : FA_2016_RD0501_169_2_20161018_00002.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.12	Rating **	U	Issue No.	993
LM End	3.12	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.211386 °	38.211386 °
				-121.610189 °	-121.610189 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50022 DS_ID:21026 EP_NO: 9880 Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Same as last inspection (pipe appears to be leaking on WS). UPDATES--levee crown has been re-paved by Sacramento County--no cracks found on crown surface. Dense vegetation limits the inpspector's visibility to identify signs of pipe failure (leaks) through the slope. Need to contact owner to determine status of crossing. Due to the leak on the WS it is recommended that the pipe be tested for internal integrity through the levee. (DWR UCIP - omagana)6/04/2013 Damage present to pipe (leak). Additional notes available: 8-inch is leaking on landward side--white sealant and rag used to seal hole, single line crack on the crown of the alignment, pipe through the levee could be bigger than 8-inch unable to confirm. Also found a 3-inch steel pipe approximately 7 feet upstream from 8-inch pipe (authorized or unauthorize?). Need to contact owner to coordinate with CVFPB. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 8-inch steel irrigation pipe and 1.5-inch steel electrical conduit through the levee, both 2.0 feet below the crown. Gate valve is located on the waterside (WS). Cutoff wall around pipe and conduit at center of levee. Siphon breaker is located on the apex of pipe at landside (LS) shoulder. Pump on piling structure is located on the WS slope. Meter pole is located on the LS toe. Pipe is exposed along LS slope. Discharge filter is located on the LS slope. (pipe and pump installed under Permit No. 9880, 1975 - Stewart Brothers; permit conditions modified under Permit No. 9880-A, 9880-B, 1975 - Stewart Brothers). [Additional Reference(s): DWR Levee Log, 2005. FS Date: 8/22/2016					

Photo 1 of 2 : UCIP_FA_2016_50022_58942.jpg



View of levee crown at crossing. Single line crack on levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.12	Rating **	U	Issue No.	993 (cont)	
LM End	3.12	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.211386 °	38.211386 °	
				-121.610189 °	-121.610189 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50022 DS_ID:21026 EP_NO: 9880 Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Same as last inspection (pipe appears to be leaking on WS). UPDATES--levee crown has been re-paved by Sacramento County--no cracks found on crown surface. Dense vegetation limits the inpsector's visibility to identify signs of pipe failure (leaks) through the slope. Need to contact owner to determine status of crossing. Due to the leak on the WS it is recommended that the pipe be tested for internal integrity through the levee. (DWR UCIP - omagana)6/04/2013 Damage present to pipe (leak). Additional notes available: 8-inch is leaking on landward side--white sealant and rag used to seal hole, single line crack on the crown of the alignment, pipe through the levee could be bigger than 8-inch unable to confirm. Also found a 3-inch steel pipe approximately 7 feet upstream from 8-inch pipe (authorized or unauthorize?). Need to contact owner to coordinate with CVFPB. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 8-inch steel irrigation pipe and 1.5-inch steel electrical conduit through the levee, both 2.0 feet below the crown. Gate valve is located on the waterside (WS). Cutoff wall around pipe and conduit at center of levee. Siphon breaker is located on the apex of pipe at landside (LS) shoulder. Pump on piling structure is located on the WS slope. Meter pole is located on the LS toe. Pipe is exposed along LS slope. Discharge filter is located on the LS slope. (pipe and pump installed under Permit No. 9880, 1975 - Stewart Brothers; permit conditions modified under Permit No. 9880-A, 9880-B, 1975 - Stewart Brothers). [Additional Reference(s): DWR Levee Log, 2005. FS Date: 8/22/2016						

Photo 2 of 2 : UCIP_FA_2016_50022_58940.jpg



Station details--gate valve, air vent, and other appurtenances.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.19	Rating **	M	Issue No.	15
LM End	3.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.210429 °	38.209974 °
				-121.610503 °	-121.610703 °
DWR ID	DWR_RD0501_01_s_2012_15				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	3.24	Rating **	U	Issue No.	63
LM End	3.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.209811 °	38.209713 °
				-121.610813 °	-121.610882 °
DWR ID	DWR_RD0501_01_f_2012_63				
Comment Code					
MA : Material					
Inspector Comment					
There is a large stock pile of fire wood, metal scrap, and other unwanted materials placed withn the 10-foot easement landside that ned to be removed.					

Photo 1 of 3 : FA_2016_RD0501_169_63_20161021_00061.jpg



RD 501 Unit 1 levee mile 3.24 landside slope and toe.

LM Start	3.24	Rating **	U	Issue No.	63 (cont)
LM End	3.24	Issue Type +	En	Location *	LS

Photo 2 of 3 : FA_2016_RD0501_169_63_20161021_00062.jpg



RD 501 Levee mile 3.24 landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.24	Rating **	U	Issue No.	63 (cont)	
LM End	3.24	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.209811 °		38.209713 °
				-121.610813 °		-121.610882 °
DWR ID	DWR_RD0501_01_f_2012_63					
Comment Code						
MA : Material						
Inspector Comment						
There is a large stock pile of fire wood, metal scrap, and other unwanted materials placed withn the 10-foot easement landside that ned to be removed.						

Photo 3 of 3 : FA_2016_RD0501_169_63_20161021_00063.jpg



RD 501 Levee mile 3.24 landside toe.

LM Start	3.25	Rating **	C	Issue No.	41
LM End	3.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.209548 °	38.208632 °
				-121.610882 °	-121.611275 °
DWR ID	DWR_RD0501_01_s_2012_41				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.33	Rating **	C	Issue No.	43
LM End	3.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.208468 °	38.208292 °
				-121.611348 °	-121.611437 °
DWR ID	DWR_RD0501_01_s_2012_43				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim trees 5-feet above ground, can't see levee slope.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.46	Rating **	M	Issue No.	982
LM End	3.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.206726 °	38.206726 °
				-121.612135 °	-121.612135 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:32529
DS_ID:21028
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe was running during inspection. Crack on crown surface could be associated with pipe vibration during operation. Need to determine owner of crossing. Owner will need to clear vegetation along pipe alignment on landward side to prevent levee inspection along crossing.
FIELD_STRUCT_DESC: 20-inch pipe through the levee, 2.2 feet below the crown. 1.5-inch electrical conduit along side 20 inch pipe. Pump on platform on waterward side. Walkway present on waterward side. Stand pipe located on landward toe. Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.70).
FS Date: 6/4/2013

LM Start	3.46	Rating **	M	Issue No.	982 (cont)
LM End	3.46	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_32529_58954.jpg



Single line crack on crown.

Photo 2 of 2 : UCIP_FA_2016_32529_58951.jpg



View of waterward side--siphon breaker, walkway, platform, pump, and control panel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.73	Rating **	U	Issue No.	974
LM End	4.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.202997 °	38.197778 °
				-121.613450 °	-121.616080 °
DWR ID	DWR_RD0501_01_s_2012_974				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth from the waterside slope.					

Photo 1 of 1 : FA_2016_RD0501_169_974_20161018_00012.jpg



Unsatisfactory wild tree growth on the waterside slope. No new photo.

LM Start	3.74	Rating **	M	Issue No.	79
LM End	4.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.202818 °	38.197492 °
				-121.613545 °	-121.616342 °
DWR ID	DWR_RD0501_01_s_2012_79				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Thin out these trees to allow visibility of the slope.					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	4.27	Rating **	M	Issue No.	979
LM End	4.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.196176 °	38.196176 °
				-121.617898 °	-121.617898 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:19644
DS_ID:21016
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe section was altered/modified through levee crown. 12-inch pipe sleeved through existing pipe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Additional Notes: electrical conduit is disconnected on landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Also need to contact owner to obtain maintenance records for crossing--need permit authorizing modifications.
FIELD_STRUCT_DESC: 14-inch pipe through the levee, 3.2 feet below the crown. 12-inch pipe sleeved through existing 14-inch pipe and annular space grouted. 1.5-inch electrical conduit runs parallel along 14-inch pipe. Pump on pile structure in channel. Walkway to pump. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.30).
FS Date: 6/4/2013

LM Start	4.27	Rating **	M	Issue No.	979 (cont)
LM End	4.27	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_19644_33328.jpg



View of waterward side.

Photo 2 of 2 : UCIP_FA_2016_19644_33331.jpg



Overview of waterward side--pump station, platform, & power pole.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	4.34	Rating **	M	Issue No.	994
LM End	4.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195627 °	38.195627 °
				-121.619082 °	-121.619082 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50024
DS_ID:21017
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Unable to locate conduit due to dense vegetation. Electrical conduit crossing has been downgraded from Urgent to Non-Urgent no damage to levee was observed. Dense vegetation was observed on both WS and LS. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is abandoned owner will need to coordinate with CVFPB to remove crossing. (DWR UCIP - omagana)4/21/2016 Pipe abandoned and open on WS slope. Should be removed or abandoned properly. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: *ABANDONED* 2.5-inch steel electrical conduit through the levee, 4 feet below the crown. No Location marker on was found on waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1980 and 2005].
FS Date: 8/22/2016

LM Start	4.34	Rating **	M	Issue No.	994 (cont)
LM End	4.34	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_50024_73901.jpg



2.5-inch conduit visible on WS slope.

Photo 2 of 2 : UCIP_FA_2016_50024_73900.jpg



2.5-inch conduit visible on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	4.38	Rating **	M	Issue No.	19
LM End	4.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.195332 °	38.195310 °
				-121.619749 °	-121.619801 °
DWR ID	DWR_RD0501_01_s_2012_19				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.57	Rating **	M	Issue No.	989
LM End	4.57	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.194438 °	38.194438 °
				-121.623063 °	-121.623063 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44720 DS_ID:21103 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to verify type of abandonment and if needed abandon it properly. FIELD_STRUCT_DESC: *ABANDONED* 12-inch pipe through the levee, 3.0 feet below the crown. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.90). A 1.5-inch electrical conduit is visible on the LS slope 3-feet below the crown (good indicator for pipe crossing). FS Date: 4/21/2015					

Photo 1 of 2 : UCIP_FA_2016_44720_73904.jpg



Pipe visible on LS slope. Succulants mound up over pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	4.57	Rating **	M	Issue No.	989 (cont)	
LM End	4.57	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.194438 °	38.194438 °	
				-121.623063 °	-121.623063 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44720 DS_ID:21103 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to verify type of abandonment and if needed abandon it properly. FIELD_STRUCT_DESC: *ABANDONED* 12-inch pipe through the levee, 3.0 feet below the crown. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.90). A 1.5-inch electrical conduit is visible on the LS slope 3-feet below the crown (good indicator for pipe crossing). FS Date: 4/21/2015						

Photo 2 of 2 : UCIP_FA_2016_44720_73903.jpg



Mound at pipe visible on LS slope.

LM Start	4.95	Rating **	M	Issue No.	977
LM End	4.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.195057 °	38.195068 °
				-121.629965 °	-121.630173 °
DWR ID	DWR_RD0501_01_s_2012_977				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove the equipment from the 10 foot easement.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	5.04	Rating **	M	Issue No.	990
LM End	5.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195009 °	38.195009 °
				-121.631548 °	-121.631548 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44726 DS_ID:21018 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears abandoned as there are no connections at siphon pump on LS shoulder. If it is abandoned it should be done so properly. FIELD_STRUCT_DESC: 14-inch steel irrigation pipe sleeved through a 16-inch steel pipe through the levee, 3-feet below the crown. Annular space grouted. Siphon pump/breaker on landward shoulder. Steel standpipe with slidegate at landward toe. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.40). FS Date: 4/23/2015					

Photo 1 of 2 : UCIP_FA_2016_44726_73922.jpg



Siphon pump on LS shoulder. No connection at this time.

LM Start	5.04	Rating **	M	Issue No.	990 (cont)
LM End	5.04	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_44726_73921.jpg



Steel standpipe and gatevalve on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	5.06	Rating **	A/W	Issue No.	144
LM End	5.15	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.195012 °	38.194563 °
				-121.631897 °	-121.633400 °
DWR ID	DWR_RD0501_01_f_2013_144				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

No Photos

LM Start	5.27	Rating **	M	Issue No.	65
LM End	5.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.193805 °	38.192457 °
				-121.635391 °	-121.637997 °
DWR ID	DWR_RD0501_01_f_2012_65				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild vegetation growth on the waterside levee slope.					

No Photos

LM Start	5.39	Rating **	M	Issue No.	978
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.192878 °	38.192588 °
				-121.637332 °	-121.637802 °
DWR ID	DWR_RD0501_01_f_2013_978				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
The district has scheduled for these trees to be trimmed.					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

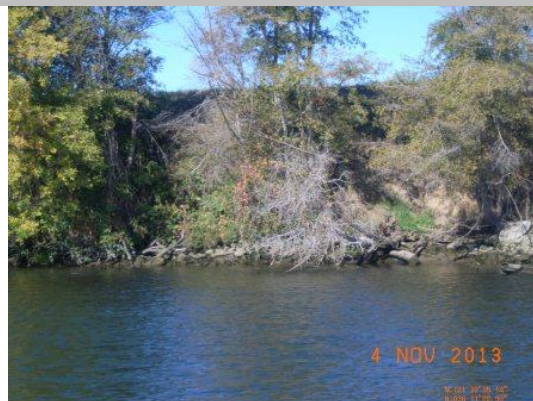
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	5.71	Rating **	M	Issue No.	24
LM End	5.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.190590 °	38.190246 °
				-121.642468 °	-121.643164 °
DWR ID	DWR_RD0501_01_s_2012_24				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth from the waterside levee slope.					

No Photos

LM Start	5.77	Rating **	M	Issue No.	1
LM End	5.84	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.190001 °	38.189311 °
				-121.643160 °	-121.643917 °
DWR ID	DWR_RD0501_01_f_2016_1				
Comment Code					
Inspector Comment					
2008 - Overstepped levee section with multiple small pockets of erosion 10 - 20 ft wide. 2013 - Site has fresh erosion and taller vertical sections. 2015: No observed changes. [2015 Site ID: STM_15-7_R]					

Photo 1 of 1 : FA_2016_RD0501_169_1_20161018_00001.jpg



USACE 2013 Photo #1

LM Start	6.16	Rating **	A	Issue No.	48
LM End	6.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.185990 °	38.184047 °
				-121.648222 °	-121.657838 °
DWR ID	DWR_RD0501_01_f_2016_48				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
NO unwanted weeds at this location.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	6.49	Rating **	M	Issue No.	22
LM End	6.68	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.184539 °	38.183923 °
				-121.653865 °	-121.657321 °
DWR ID	DWR_RD0501_01_s _ 2012_22				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	6.59	Rating **	M	Issue No.	23
LM End	6.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.184136 °	38.184040 °
				-121.655762 °	-121.656291 °
DWR ID	DWR_RD0501_01_s _ 2012_23				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
The district has scheduled for these trees to be trimmed.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	6.66	Rating **	M	Issue No.	983
LM End	6.66	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.183961 °	38.183961 °
				-121.656860 °	-121.656860 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32530					
DS_ID:21020					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If structure is no longer used--Need to contact owner to determine status. If crossing is no longer used owner will need to coordinate with CVFPB.					
FIELD_STRUCT_DESC: Abandoned 16-inch pipe through the levee, 6.5 feet below the crown. Siphon breaker and service pole on landward shoulder. Electrical box on landside toe. Pump on pile stucture in channel.					
FS Date: 6/4/2013					

LM Start	6.66	Rating **	M	Issue No.	983 (cont)
LM End	6.66	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32530_58957.jpg



Abandoned 16-inch pipe on landward side.

Photo 2 of 2 : UCIP_FA_2016_32530_58956.jpg



Overview of waterward side--section of pipe visible through dense vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

Waterway			Bank	Unit Miles
Unit No. 02 Cache Slough			Left	3.56
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/24/2016 - 3/24/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Nicolas Zepeda RD 501		Nicolas Zepeda RD 501	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.00	Rating **	M	Issue No.	2	
LM End	0.09	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.184050 °		38.185178 °
				-121.657713 °		-121.658515 °
DWR ID	DWR_RD0501_02_s_2012_2					
Comment Code						
FE : Fence						
Inspector Comment						
This is not a new encroachment.						

No Photos

LM Start	0.01	Rating **	A	Issue No.	24
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.184110 °	38.227787 °
				-121.658015 °	-121.673103 °
DWR ID	DWR_RD0501_02_f_2016_24				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The RD is mowing the landside levee slope and toe during this inspection.					

Photo 1 of 1 : FA_2016_RD0501_170_24_20161024_00043.jpg



RD 501 Unit 2 levee mile 0.00 -3.55 landside looking downstream of levee slope.

LM Start	0.49	Rating **	A	Issue No.	9
LM End	3.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.190509 °	38.227237 °
				-121.656805 °	-121.673078 °
DWR ID	DWR_RD0501_02_s_2012_9				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
District is in process of mowing the levee slopes during this inspection.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.54	Rating **	C	Issue No.	11
LM End	0.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.191117°	38.191170°
				-121.656468°	-121.656437°
DWR ID	DWR_RD0501_02_s_2012_11				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	0.56	Rating **	M	Issue No.	26
LM End	0.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.191452°	38.191452°
				-121.656188°	-121.656188°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32531 DS_ID:21035 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to determine owner and status of crossing. FIELD_STRUCT_DESC: 10-inch pipe sleeved through a 12-inch pipe through the levee, 5.0 feet below the crown. Pump on waterward side. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.60). FS Date: 6/7/2013					

Photo 1 of 2 : UCIP_FA_2016_32531_58960.jpg



View of crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.56	Rating **	M	Issue No.	26 (cont)	
LM End	0.56	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.191452 °		38.191452 °
				-121.656188 °		-121.656188 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32531						
DS_ID:21035						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to determine owner and status of crossing.						
FIELD_STRUCT_DESC: 10-inch pipe sleeved through a 12-inch pipe through the levee, 5.0 feet below the crown. Pump on waterward side. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.60).						
FS Date: 6/7/2013						

Photo 2 of 2 : UCIP_FA_2016_32531_58958.jpg



Overview of waterward side. Inaccessible due to dense vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.86	Rating **	U	Issue No.	36
LM End	0.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195588 °	38.195588 °
				-121.655189 °	-121.655189 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50018
DS_ID:21092
EP_NO: 3703
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Same as last inspection -- pipe is deteriorating and breaking apart (visible on WS). (DWR UCIP - omagana)6/07/2013 Deteriorated pipe with holes present at intake. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is no longer used --owner will need coordinate with CVFPB to address crossing. Need to coordinate with DWR Inspector and CVFPB. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel pipe through the levee, 1.7 feet below the crown. Siphon breaker on apex of pipe located on the landside (LS) shoulder. Pipe discharges into concrete sump near LS toe. Pipe is exposed along LS slope. Second 8-inch pipe is approximately 1 foot apart which is visible on LS. Pipe is also visible on waterside (WS). (Permit No. 3703, 1961 - Enzo Guidi) [Additional Reference(s): DWR Levee Log, 2005].
FS Date: 8/22/2016

LM Start	0.86	Rating **	U	Issue No.	36 (cont)
LM End	0.86	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50018_58967.jpg



Overview of WS--20 foot berm present.

Photo 2 of 2 : UCIP_FA_2016_50018_58965.jpg



View of WS. Inspector is standing near exposed section of pipe at levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.86	Rating **	U	Issue No.	37
LM End	0.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195600 °	38.195600 °
				-121.655191 °	-121.655191 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50019
DS_ID:21036
EP_NO: 1902
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Same as previous inspection. Pipe is deteriorating and open on WS. (DWR UCIP - omagana)6/07/2013 Reason for an Urgent Priority is due to adjacent crossing--adjacent crossing has holes present and is was installed in the 1960s. Our records show this pipe was installed before 1955. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is no longer in use--Owner will need to coordinate with DWR Inspector and CVFPB. Need to determine condition of pipe--request maintenance records from owner once found--this crossing could be capped and grouted--NEED RECORDS. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation pipe encased in a 10-inch 14 gage corrugated metal pipe through the levee, 1.7 feet below the crown. Siphon breaker on the apex of pipe located on the landside (LS) shoulder. Pipe discharges into concrete sump near LS toe. Pipe is exposed along LS slope. (original O&M 8-inch pipe section through levee was removed and replaced with a 8-inch steel pipe encased in 10-inch corrugated metal pipe under Permit No. 1902, 1959 - Enzo Guidi). [Additional Reference(s): DWR Levee Log, 1980 and 2005. USACE Sacramento O&M Manual Unit No. 105, April 1959, (HLM 0.90)].
FS Date: 8/22/2016

Photo 1 of 2 : UCIP_FA_2016_50019_58968.jpg



8-inch pipes approximately 1 foot apart.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.86	Rating **	U	Issue No.	37 (cont)
LM End	0.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195600 °	38.195600 °
				-121.655191 °	-121.655191 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50019 DS_ID:21036 EP_NO: 1902 Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Same as previous inspection. Pipe is deteriorating and open on WS. (DWR UCIP - omagana)6/07/2013 Reason for an Urgent Priority is due to adjacent crossing--adjacent crossing has holes present and is was installed in the 1960s. Our records show this pipe was installed before 1955. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is no longer in use--Owner will need to coordinate with DWR Inspector and CVFPB. Need to determine condition of pipe--request maintenance records from owner once found-this crossing could be capped and grouted--NEED RECORDS. (DWR UCIP - omagana) FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel irrigation pipe encased in a 10-inch 14 gage corrugated metal pipe through the levee, 1.7 feet below the crown. Siphon breaker on the apex of pipe located on the landside (LS) shoulder. Pipe discharges into concrete sump near LS toe. Pipe is exposed along LS slope. (original O&M 8-inch pipe section through levee was removed and replaced with a 8-inch steel pipe encased in 10-inch corrugated metal pipe under Permit No. 1902, 1959 - Enzo Guidi). [Additional Reference(s): DWR Levee Log, 1980 and 2005. USACE Sacramento O&M Manual Unit No. 105, April 1959, (HLM 0.90)]. FS Date: 8/22/2016					

Photo 2 of 2 : UCIP_FA_2016_50019_58970.jpg



Overview of waterward side--20 foot berm present.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.04	Rating **	M	Issue No.	10
LM End	1.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.198153 °	38.198153 °
				-121.655614 °	-121.655614 °
DWR ID	DWR_RD0501_02_s_2012_10				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
This erosion has not been repaired prior to the fall inspection.					

No Photos

LM Start	1.10	Rating **	M	Issue No.	1
LM End	1.17	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.199128 °	38.200146 °
				-121.655881 °	-121.655638 °
DWR ID	DWR_RD0501_02_f_2016_1				
Comment Code					
Inspector Comment					
2005 - Large vertical sections due to wave wash. New stone dumped on the bank with exposed geotextile. Cohesive toe has thin weak stratigraphic unit that is washing out. 2006 - Partially repaired, but 100 ft in the middle of the reach has exposed filter fabric and stone riprap is gone. 2010 - Site extended downstream to include new erosion pocket. 2015: No observed changes. [2015 Site ID: CHS_15-9_L]					

Photo 1 of 1 : FA_2016_RD0501_170_1_20161018_00001.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.15	Rating **	M	Issue No.	33
LM End	1.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.199816 °	38.199816 °
				-121.655395 °	-121.655395 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44865 DS_ID:21038 EP_NO: 2817 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Scour hole located on waterward side. FIELD_STRUCT_DESC: 20-inch steel drainpipe sleeved through a 24-inch steel pipe through the levee, 9.0 feet below the crown. Flap gate on waterward end. Two cutoff collars around the pipe at both shoulders. Pipe exposed along both slopes. Rock revetment on waterward slope. Berm on waterward side is over 20 feet. (Permit No. 2817-1959) FS Date: 6/7/2013					

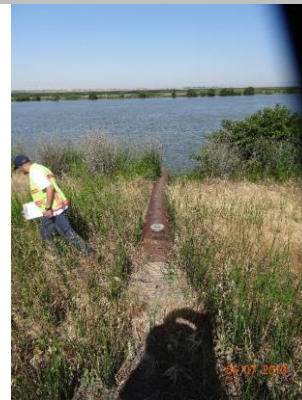
LM Start	1.15	Rating **	M	Issue No.	33 (cont)
LM End	1.15	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_44865_58975.jpg



View of levee crown at crossings.

Photo 2 of 2 : UCIP_FA_2016_44865_58972.jpg



View of waterward side--pipe section exposed and siphon breaker. Over 20 feet berm on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.16	Rating **	M	Issue No.	34
LM End	1.16	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.199837 °	38.199837 °
				-121.655391 °	-121.655391 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44866 DS_ID:21094 EP_NO: 14491 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Scour hole present on waterward side. FIELD_STRUCT_DESC: 24-inch steel drainpipe through the levee, 4.5 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at waterward shoulder. Pump on landward side. (Permit No. 14491-1986) FS Date: 6/7/2013					

Photo 1 of 2 : UCIP_FA_2016_44866_58981.jpg



View of downstream crown.

LM Start	1.16	Rating **	M	Issue No.	34 (cont)
LM End	1.16	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_44866_58979.jpg



Two pipes on waterside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.25	Rating **	M	Issue No.	30 (cont)
LM End	1.25	Issue Type +	En	Location *	WS

A large, rusted metal pipe lies horizontally on a bed of rocks and dry vegetation. The pipe is heavily corroded, showing a dark brown, pitted surface. It is surrounded by dry, brownish grasses and small shrubs. In the background, there are green bushes and a wooden post. The scene is outdoors, likely in a natural or semi-natural setting.

20-inch pipe with welded steel plate over end on WS toe.

Hole in pipe at WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.70	Rating **	M	Issue No.	35	
LM End	1.70	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.207507 °	38.207507 °	
				-121.656219 °	-121.656219 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:44867						
DS_ID:21093						
EP_NO: 13520						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Owner needs to be informed about the vegetation clearance required for proper inspection.						
FIELD_STRUCT_DESC: 18-inch steel pipe through the levee, 3.4 feet below the crown. Steel cutoff wall around pipe at center of levee.						
Siphon breaker on apex of pipe on landward shoulder. Pipe extends from sump off of landward toe. Pipe exposed along waterward slope.						
Rock revetment on waterward slope. (Permit No. 13520-1982)						
FS Date: 6/7/2013						

LM Start	1.70	Rating **	M	Issue No.	35 (cont)
LM End	1.70	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_44867_58987.jpg



Overview of waterside. Dense vegetation.

Photo 2 of 2 : UCIP_FA_2016_44867_58982.jpg



View of waterward side--pipe extends from berm to river.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.80	Rating **	M	Issue No.	28
LM End	1.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.208874 °	38.208874 °
				-121.655505 °	-121.655505 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:40489
DS_ID:21042
EP_NO: 15477
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Stacey Boyd, LMA superintendent for RD0501, confirmed the removal and replacement of existing crossing under new permit no. 18811. New crossing will be a 30-inch diameter discharge pipe above the design flood plane. Construction will start soon. Update record once the project is completed. Dense vegetation on both waterside and landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 42-inch steel pipe through the levee, 6.5 feet below the crown. Siphon breaker on waterward slope. Pump on the landward side (Permit No. 15477, 1990). Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.0).
FS Date: 6/7/2013

LM Start	1.80	Rating **	M	Issue No.	28 (cont)
LM End	1.80	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_40489_33358.jpg



Overview of crown, looking downstream.

Photo 2 of 2 : UCIP_FA_2016_40489_33359.jpg



One 42-inch steel pile with siphon break on waterside slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.81	Rating **	M	Issue No.	31
LM End	1.81	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.208998 °	38.208998 °
				-121.655575 °	-121.655575 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47049
DS_ID:21091
EP_NO: 15477
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 2 of 2: 36-inch steel pipe through the levee, 7.0 feet below the crown. Siphon breaker on waterward shoulder. Pumps on landward side. Pipe exposed along both slopes. Pipe supports at levee shoulders, were cutoff walls from pre-existing pipe (Permit No. 15477-1990) Dual 36-inch pipes are approximately 36-inches apart.
FS Date: 6/7/2013

LM Start	1.81	Rating **	M	Issue No.	31 (cont)
LM End	1.81	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_47049_33378.jpg



Overview of crown, looking downstream

Photo 2 of 2 : UCIP_FA_2016_47049_33373.jpg



Overview of dual pipes on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.82	Rating **	M	Issue No.	32
LM End	1.82	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.209009 °	38.209009 °
				-121.655585 °	-121.655585 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:47050
DS_ID:21084
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 2 of 2: 36-inch steel pipe through the levee, 7.0 feet below the crown. Siphon breaker on waterward shoulder. Pumps on landward side. Pipe exposed along both slopes. Pipe supports at levee shoulders, were cutoff walls from pre-existing pipe. (Permit No. 15477-1990) Pipes are approximately 36 inches apart.
FS Date: 6/7/2013

LM Start	1.82	Rating **	M	Issue No.	32 (cont)
LM End	1.82	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_47050_33371.jpg



Overview of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_47050_33372.jpg



Overview of waterward side--3 crossings visible 1-42 inch pipe and 2-36 inch pipes.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	2.44	Rating **	M	Issue No.	27
LM End	2.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.213390 °	38.213390 °
				-121.665104 °	-121.665104 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:32537
DS_ID:21044
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 6.2 feet below the crown. Siphon breaker on waterward shoulder. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.60). Pipe was repaired in 1984 under Permit No. 13937. The repair consisted of replacing the pipeline within the levee crown with new soil proofed steel pipe.
FS Date: 6/7/2013

LM Start	2.44	Rating **	M	Issue No.	27 (cont)
LM End	2.44	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32537_58989.jpg



View of levee crown--narrow road.

Photo 2 of 2 : UCIP_FA_2016_32537_58990.jpg



Photo taken just downstream of crossing looking at waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	2.80	Rating **	M	Issue No.	29
LM End	2.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.217579 °	38.217579 °
				-121.668963 °	-121.668963 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44872					
DS_ID:21045					
EP_NO: 4733					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.					
FIELD_STRUCT_DESC: 18-inch pipe through the levee, 4.0 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Rock revetment on waterward slope.					
16-inch pipe welded to 18-inch pipe near landward shoulder, extends down landward slope. Pipe exposed along both slopes. (Permit No. 4733-1964)					
FS Date: 6/7/2013					

LM Start	2.80	Rating **	M	Issue No.	29 (cont)
LM End	2.80	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_44872_33392.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_44872_33393.jpg



Dense vegetation hindered inspection on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	2.90	Rating **	M	Issue No.	4
LM End	2.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.218890 °	38.218997 °
				-121.669934 °	-121.669988 °
DWR ID	DWR_RD0501_02_s_2012_4				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Exterminate the rodents and backfill and compact the burrows.					

No Photos

LM Start	3.07	Rating **	M	Issue No.	25
LM End	3.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.221090 °	38.221090 °
				-121.671384 °	-121.671384 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19657 DS_ID:21046 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 16-inch pipe sleeved through a 20-inch pipe through the levee, 4.7 feet below the crown. Annular gap grouted. Siphon breaker on landward shoulder. Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.30). The 16-inch pipe was sleeved through pre-existing pipe under Permit No. 2645 (1959). FS Date: 8/22/2013					

Photo 1 of 2 : UCIP_FA_2016_19657_33396.jpg



Dense vegetation along the crown hinge point and beginning section of waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.07	Rating **	M	Issue No.	25 (cont)
LM End	3.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.221090 °	38.221090 °
				-121.671384 °	-121.671384 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19657 DS_ID:21046 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 16-inch pipe sleeved through a 20-inch pipe through the levee, 4.7 feet below the crown. Annular gap grouted. Siphon breaker on landward shoulder. Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.30). The 16-inch pipe was sleeved through pre-existing pipe under Permit No. 2645 (1959). FS Date: 8/22/2013					

Photo 2 of 2 : UCIP_FA_2016_19657_33400.jpg



Dense vegetation along the upper portion of the waterward slope prevents proper inspection of crossing.

LM Start	3.41	Rating **	M	Issue No.	16	
LM End	3.41	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.225823 °	38.225823 °	
				-121.672837 °	-121.672837 °	
DWR ID	DWR_RD0501_02_s_2012_16					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						
Trim up the tree on the landside slope.						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.42	Rating **	M	Issue No.	18
LM End	3.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.225987 °	38.225987 °
				-121.672870 °	-121.672870 °
DWR ID	DWR_RD0501_02_s_2012_18				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim up tree on the landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

Waterway			Bank	Unit Miles
Unit No. 03 Miner Slough			Left	7.71
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/24/2016 - 3/24/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Nicolas Zepeda RD 501		Nicolas Zepeda RD 501	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.01	Rating **	A/W	Issue No.	32
LM End	7.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.228207 °	38.285530 °
				-121.673012 °	-121.606210 °
DWR ID	DWR_RD0501_03_f_2016_32				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
RD 501 has mowing crew on levee chopping the weeds on landside from levee mile 0.01-7.70 top and bottom of slope.					

Photo 1 of 1 : FA_2016_RD0501_171_32_20161021_00068.jpg



RD 501 Unit 3 looking downstream landside slope levee mile 0.01 -7.70.

LM Start	0.04	Rating **	M	Issue No.	34
LM End	0.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.228585 °	38.233410 °
				-121.672760 °	-121.666788 °
DWR ID	DWR_RD0501_03_f_2016_34				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Control the annual grasses from levee mile 0.04-0.51 waterside levee slope.					

No Photos

LM Start	0.51	Rating **	U	Issue No.	35
LM End	0.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.233410 °	38.234525 °
				-121.666788 °	-121.665495 °
DWR ID	DWR_RD0501_03_f_2016_35				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Thin out the woody tree growth on the waterside slope.					

Photo 1 of 1 : FA_2016_RD0501_171_35_20161021_00069.jpg



RD 501 Unit 3 levee mile 0.51 downstream to 0.61 waterside shoulder and slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.62	Rating **	M	Issue No.	143
LM End	0.62	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.234679 °	38.234679 °
				-121.665417 °	-121.665417 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44873					
DS_ID:21065					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pump operating during inspection. Need to determine owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.					
FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 6.3 feet below the crown instead of 16-inch pipe mentioned in O&M. Siphon breaker on landward slope. Pipe exposed on both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.70).					
FS Date: 6/7/2013					

LM Start	0.62	Rating **	M	Issue No.	143 (cont)
LM End	0.62	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_44873_33405.jpg



Overview of waterward side. Dense vegetation limits proper inspection.

Photo 2 of 2 : UCIP_FA_2016_44873_33402.jpg



Conditions of waterward slope--dense vegetation along slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.35	Rating **	M	Issue No.	152
LM End	1.35	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.242879 °	38.242879 °
				-121.659450 °	-121.659450 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44728					
DS_ID:21066					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and if so should be done so properly. Wooden walkway to pier in disrepair and a hazard.					
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 8.0-feet below the crown. Siphon breaker on landward slope. Pump on pipe structure in stream. Concrete standpipe and distribution slide gates at landward toe. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.50). 1.5-inch electrical conduit at same location.					
FS Date: 6/7/2013					

LM Start	1.35	Rating **	M	Issue No.	152 (cont)
LM End	1.35	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_44728_73924.jpg



Siphon breaker in 24-inch CMP riser on LS slope. Standpipe visible at LS toe.

Photo 2 of 2 : UCIP_FA_2016_44728_73923.jpg



Pump on wooden pier off WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.38	Rating **	A/W	Issue No.	37
LM End	7.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.243203 °	38.285530 °
				-121.658950 °	-121.606207 °
DWR ID	DWR_RD0501_03_f_2016_37				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
The vegetation complies with standards but the RD will have to monitor the progress.					

No Photos

LM Start	1.88	Rating **	M	Issue No.	150
LM End	1.88	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.249362 °	38.249362 °
				-121.656357 °	-121.656357 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43503 DS_ID:21068 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Authorized or Unauthorized? Need permit authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope on both waterward and landward side. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 6.3 feet below the crown. Pump, gate valve and switch box on waterward slope. Originally reported as 3.8-feet below crown in O+M manual, 1959 at HLM: 2.0. FS Date: 6/7/2013					

Photo 1 of 2 : UCIP_FA_2016_43503_33410.jpg



Overview of waterward side. Pipe is completely obstructed by dense vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.88	Rating **	M	Issue No.	150 (cont)	
LM End	1.88	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.249362 °	38.249362 °	
				-121.656357 °	-121.656357 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43503 DS_ID:21068 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Authorized or Unauthorized? Need permit authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope on both waterward and landward side. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 6.3 feet below the crown. Pump, gate valve and switch box on waterward slope. Originally reported as 3.8-feet below crown in O+M manual, 1959 at HLM: 2.0. FS Date: 6/7/2013						

Photo 2 of 2 : UCIP_FA_2016_43503_33411.jpg



Overview of landward side. Pipe is visible however dense vegetation limits proper inspection.

LM Start	2.52	Rating **	M	Issue No.	131
LM End	2.52	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.256255 °	38.256255 °
				-121.651551 °	-121.651551 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18945					
DS_ID:21047					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need to determine owner of structure. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.					
FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 3.3 feet below the crown. Gate valve and switch box on landward slope. Pipe exposed on both slopes. (USACE-1959) Riprap on waterward side. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.70).					
FS Date: 6/7/2013					

Photo 1 of 2 : UCIP_FA_2016_18945_31607.jpg



Overview of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	2.52	Rating **	M	Issue No.	131 (cont)	
LM End	2.52	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.256255 °		38.256255 °
				-121.651551 °		-121.651551 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:18945 DS_ID:21047 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to determine owner of structure. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 3.3 feet below the crown. Gate valve and switch box on landward slope. Pipe exposed on both slopes. (USACE-1959) Riprap on waterward side. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.70). FS Date: 6/7/2013						

Photo 2 of 2 : UCIP_FA_2016_18945_31609.jpg



Overview of waterward side. Pipe is mostly buried through waterward side.

LM Start	2.61	Rating **	M	Issue No.	3
LM End	2.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.257445 °	38.258759 °
				-121.651437 °	-121.651449 °
DWR ID	DWR_RD0501_03_s_2012_3				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim the trees to five feet above the ground.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	2.79	Rating **	M	Issue No.	130
LM End	3.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.260118 °	38.262839 °
				-121.651351 °	-121.647722 °
DWR ID	DWR_RD0501_03_s_2014_130				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim up the trees on the landside slope.					

No Photos

LM Start	3.51	Rating **	M	Issue No.	135
LM End	3.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.266187 °	38.266187 °
				-121.641909 °	-121.641909 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32538					
DS_ID:21048					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to find owner of crossing and determine if permit number is available.					
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 5.0 feet below the crown. Pump on pile structure in stream. Service pole on landward slope. Concrete standpipe at landward toe. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.80).					
FS Date: 6/7/2013					

Photo 1 of 2 : UCIP_FA_2016_32538_58994.jpg



Photo taken downstream of structure.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.51	Rating **	M	Issue No.	135 (cont)	
LM End	3.51	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.266187 °	38.266187 °	
				-121.641909 °	-121.641909 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32538						
DS_ID:21048						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to find owner of crossing and determine if permit number is available.						
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 5.0 feet below the crown. Pump on pile structure in stream. Service pole on landward slope. Concrete standpipe at landward toe. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.80).						
FS Date: 6/7/2013						

Photo 2 of 2 : UCIP_FA_2016_32538_58999.jpg



View of waterward side. Dense vegetation throughout waterward side. Walkway visible and support piles.

LM Start	3.55	Rating **	M	Issue No.	15
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.266666 °	38.266857 °
				-121.641475 °	-121.641280 °
DWR ID	DWR_RD0501_03_s_2012_15				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim up tree on landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.62	Rating **	M	Issue No.	142
LM End	3.62	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.267490 °	38.267490 °
				-121.640749 °	-121.640749 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:46768					
DS_ID:21049					
EP_NO: 1557					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Crossing appears abandoned--wooden platform structure appears to be abandoned on waterward side. Small hole underneath pipe on landward side--unable to determine cause (rodent/pipe leak) Need to find owner of crossing to determine status. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtances.					
FIELD_STRUCT_DESC: *ABANDONED* 6-inch pipe through the levee, 2.5 feet below the crown. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.90). Permit No. 1557, 1951).					
FS Date: 6/7/2013					

LM Start	3.62	Rating **	M	Issue No.	142 (cont)
LM End	3.62	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_46768_30382.jpg



View of landward side showing a small section of pipe exposed.

Photo 2 of 2 : UCIP_FA_2016_46768_30381.jpg



Burrow activity visible underneath pipe alignment.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.62	Rating **	M	Issue No.	22
LM End	3.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.267485 °	38.267578 °
				-121.640667 °	-121.640507 °
DWR ID	DWR_RD0501_03_s_2012_22				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Thin trees to allow the visibility of the ground.					

No Photos

LM Start	3.65	Rating **	M	Issue No.	136
LM End	3.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.267818 °	38.267818 °
				-121.640521 °	-121.640521 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32540 DS_ID:21050 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to properly inspect structure--limited access. Also unable to determine if structure is still in use. Levee logs indicate this crossing is abandoned. If strcture is no longer used-how to prevent water from flowing through levee during flood season. If structure no longer in use owner will need to coordinate with CVFPB. FIELD_STRUCT_DESC: *ABANDONED* 5.5 x 5.5 foot concrete tunnel through the levee, 6.5 feet below the crown. FS Date: 6/7/2013					

Photo 1 of 2 : UCIP_FA_2016_32540_59007.jpg



View of narrow levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.65	Rating **	M	Issue No.	136 (cont)	
LM End	3.65	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.267818 °		38.267818 °
				-121.640521 °		-121.640521 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32540 DS_ID:21050 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to properly inspect structure--limited access. Also unable to determine if structure is still in use. Levee logs indicate this crossing is abandoned. If structure is no longer used-how to prevent water from flowing through levee during flood season. If structure no longer in use owner will need to coordinate with CVFPB. FIELD_STRUCT_DESC: *ABANDONED* 5.5 x 5.5 foot concrete tunnel through the levee, 6.5 feet below the crown. FS Date: 6/7/2013						

Photo 2 of 2 : UCIP_FA_2016_32540_59006.jpg



View of large building structure located on landward side.

LM Start	3.66	Rating **	U	Issue No.	153
LM End	3.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268003 °	38.268003 °
				-121.640474 °	-121.640474 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50023 DS_ID:21051 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Unable to locate due to high traffic area and narrow levee crown. Assume condition is same as previous inspection. CVFPB should review this crossing to determine if WS needs to be capped off for flood season. (DWR UCIP - omagana)4/23/2015 Concrete deteriorating. Pipe open on both ends. Appears abandoned and if so should be done so properly. (DWR UCIP - omagana) FIELD_STRUCT_DESC: *ABANDONED* 5.5-foot by 6.0-foot concrete tunnel through the levee, 2.5 feet below the crown. FS Date: 8/22/2016					

Photo 1 of 2 : UCIP_FA_2016_50023_73942.jpg



Building on LS shoulder prevents access to LS of levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.66	Rating **	U	Issue No.	153 (cont)	
LM End	3.66	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.268003 °		38.268003 °
				-121.640474 °		-121.640474 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50023 DS_ID:21051 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Unable to locate due to high traffic area and narrow levee crown. Assume condition is same as previous inspection. CVFPB should review this crossing to determine if WS needs to be capped off for flood season. (DWR UCIP - omagana)4/23/2015 Concrete deteriorating. Pipe open on both ends. Appears abandoned and if so should be done so properly. (DWR UCIP - omagana) FIELD_STRUCT_DESC: *ABANDONED* 5.5-foot by 6.0-foot concrete tunnel through the levee, 2.5 feet below the crown. FS Date: 8/22/2016						

Photo 2 of 2 : UCIP_FA_2016_50023_73941.jpg



Concrete tunnel and wingwalls visible on WS slope.

LM Start	3.68	Rating **	M	Issue No.	132
LM End	3.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268278 °	38.268278 °
				-121.640377 °	-121.640377 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19662 DS_ID:21052 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to abandon structure properly--contact owner. Also if crossing is still in use--recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 36-inch pipe through the levee, 5.0 feet below the crown. Grain loading auger sleeved through the pipe. Grain loading system on platform in channel. (Permit No. 1503, 1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.00). FS Date: 6/7/2013					

Photo 1 of 2 : UCIP_FA_2016_19662_33420.jpg



View of waterward side. Pipe visible through dense vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.68	Rating **	M	Issue No.	132 (cont)	
LM End	3.68	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.268278 °	38.268278 °	
				-121.640377 °	-121.640377 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19662						
DS_ID:21052						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Need to abandon structure properly--contact owner.						
Also if crossing is still in use--recommend removing vegetation along						
pipe alignment to conduct proper inspection of structure and						
appurtenances.						
FIELD_STRUCT_DESC: 36-inch pipe through the levee, 5.0 feet below						
the crown. Grain loading auger sleeved through the pipe. Grain loading						
system on platform in channel. (Permit No. 1503, 1959). This entry						
matches the Drainage or Irrigation Structure referenced in O&M manual						
(HLM 4.00).						
FS Date: 6/7/2013						

Photo 2 of 2 : UCIP_FA_2016_19662_33418.jpg



Dense vegetation along the pipe alignment and throughout waterward slope.

LM Start	3.70	Rating **	M	Issue No.	151
LM End	3.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268570 °	38.268570 °
				-121.640408 °	-121.640408 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43524 DS_ID:21053 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 6-inch pipe through the levee, 2.5 feet below the crown. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.00). (Permit No. 1557, 1951). FS Date: 6/7/2013					

Photo 1 of 2 : UCIP_FA_2016_43524_33425.jpg



View of waterward side. Dense vegetation limits inspections. Signs of structure visible highlighted by red box.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	3.70	Rating **	M	Issue No.	151 (cont)	
LM End	3.70	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.268570 °		38.268570 °
				-121.640408 °		-121.640408 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:43524 DS_ID:21053 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 6-inch pipe through the levee, 2.5 feet below the crown. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.00). (Permit No. 1557, 1951). FS Date: 6/7/2013						

Photo 2 of 2 : UCIP_FA_2016_43524_33424.jpg



View of landward side. Pipe visible.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	4.30	Rating **	M	Issue No.	144
LM End	4.30	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.275862 °	38.275862 °
				-121.638709 °	-121.638709 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:44876
DS_ID:21069
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Damage to levee shoulder. Crossing appears to be still be in use--need to contact owner to inform about maintenance issues. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 24-inch pipe through the levee, 6.5 feet below the crown. Cutoff wall around pipe at waterward shoulder. Siphon breaker on apex of pipe at landward shoulder. Pump in pump house on landward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.60). 18-inch steel pipe sleeved through the 24-inch pipe under Permit No. 2496 (1957). Annular gap grouted.
FS Date: 6/7/2013

LM Start	4.30	Rating **	M	Issue No.	144 (cont)
LM End	4.30	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_44876_33427.jpg



Line cracks along crown near crown hinge point on waterward side.

Photo 2 of 2 : UCIP_FA_2016_44876_33428.jpg



View of waterward slope. Dense vegetation along slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	4.31	Rating **	M	Issue No.	147
LM End	4.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.275955 °	38.275955 °
				-121.638626 °	-121.638626 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44746					
DS_ID:21107					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Need to verify type of abandonment.					
FIELD_STRUCT_DESC: *ABANDONED* 10-inch pipe through the					
levee, 4.8 feet below the crown. 34-inch concrete standpipe on LS toe.					
10-inch diameter hole in standpipe where abandoned pipe once					
connected (USACE-1959). This entry matches the Drainage or					
Irrigation Structure referenced in O&M manual (HLM 4.60).					
FS Date: 4/23/2015					

Photo 1 of 2 : UCIP_FA_2016_44746_73944.jpg



34-inch diameter concrete standpipe at LS toe.

LM Start	4.31	Rating **	M	Issue No.	147 (cont)
LM End	4.31	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_44746_73943.jpg



10-inch diameter hole cut in side of standpipe where pipe once was installed.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	4.75	Rating **	M	Issue No.	137
LM End	4.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.281041 °	38.281041 °
				-121.640904 °	-121.640904 °
DWR ID					

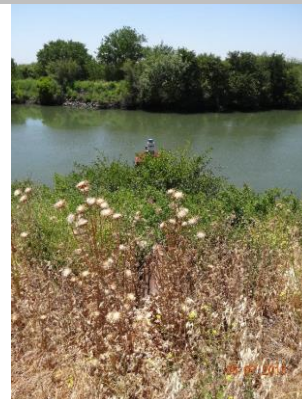
Comment Code

Inspector Comment

FS_ID:32541
DS_ID:21071
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: --Contact owner--Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Walkway and siphon breaker not found.
FIELD_STRUCT_DESC: 12-inch concrete pipe through the levee, 2.5 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at shoulder. Pump on pile structure in stream. Walkway access to pump. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.10).
FS Date: 6/7/2013

LM Start	4.75	Rating **	M	Issue No.	137 (cont)
LM End	4.75	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_32541_59008.jpg



View of waterward side. Pump located on pile structure in stream.

Photo 2 of 2 : UCIP_FA_2016_32541_59009.jpg



View of landward side. Power source and control box on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	5.43	Rating **	M	Issue No.	145
LM End	5.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.288951 °	38.288951 °
				-121.644223 °	-121.644223 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:44877
DS_ID:21055
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe abandoned and should be done so properly.
FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 1.8-feet below the crown. Pump on pile structure in stream. Pipe exposed on landward side. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.90).
FS Date: 4/23/2015

LM Start	5.43	Rating **	M	Issue No.	145 (cont)
LM End	5.43	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_44877_73946.jpg



Buried pipe exposed in trench 8-feet downstream from visible pipe.

Photo 2 of 2 : UCIP_FA_2016_44877_73945.jpg



Cut in buried pipe on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	5.43	Rating **	M	Issue No.	133
LM End	5.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.288950 °	38.288950 °
				-121.644183 °	-121.644183 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19666 DS_ID:21054 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to find owner and permit number authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 12-inch pipe through the levee, 3.0 feet below the crown. Pump on pile structure in stream. FS Date: 6/7/2013					

LM Start	5.43	Rating **	M	Issue No.	133 (cont)
LM End	5.43	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_19666_33435.jpg



Overview of waterward side. Control box located near levee crown.

Photo 2 of 2 : UCIP_FA_2016_19666_33434.jpg



Structure visible through the dense vegetation. Limited access unable to inspect.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	6.39	Rating **	M	Issue No.	138
LM End	6.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290373 °	38.290373 °
				-121.627633 °	-121.627633 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32542 DS_ID:21059 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to determine status of crossing. Horizontal and vertical cracks present on stand pipe located on landward side. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 6.0 feet below the crown. 2-inch conduit line through levee. Pump and gate valve on waterward slope. Pipe exposed on landward side. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90). FS Date: 6/13/2013					

LM Start	6.39	Rating **	M	Issue No.	138 (cont)
LM End	6.39	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_32542_59022.jpg



Overview of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_32542_59023.jpg



View of waterward side. Dense vegetation along levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	6.40	Rating **	M	Issue No.	146
LM End	6.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290356 °	38.290356 °
				-121.627488 °	-121.627488 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:42118 DS_ID:24054 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to determine encroachment number issued for pipe installation. FIELD_STRUCT_DESC: Gasline through levee at an angle with unknown depth. Markers visible on both sides. FS Date: 6/13/2013					

Photo 1 of 2 : UCIP_FA_2016_42118_72902.jpg



Markers visible on waterward side.

LM Start	6.40	Rating **	M	Issue No.	146 (cont)
LM End	6.40	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_42118_72901.jpg



Marker visible on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	6.40	Rating **	M	Issue No.	134
LM End	6.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290351 °	38.290351 °
				-121.627452 °	-121.627452 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:19668
DS_ID:21057
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Crossing was operating during inspection; Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 1 of 2: 30-inch steel pipe through the levee, 9.5 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker at landward slope. Primer tanks on landward slope. Pipe exposed on both slopes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90). Pipe installed under Permit No. 611 in 1934. Section of pipe between shoulders removed and replaced with 30-inch steel pipe under Permit No. 2497 (1959).
FS Date: 6/13/2013

LM Start	6.40	Rating **	M	Issue No.	134 (cont)
LM End	6.40	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_19668_33446.jpg



Overview of levee crown--multiple crossings within a 50 foot stretch.

Photo 2 of 2 : UCIP_FA_2016_19668_33443.jpg



View of waterward side. Metal posts near the levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	6.41	Rating **	M	Issue No.	139
LM End	6.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290345 °	38.290345 °
				-121.627401 °	-121.627401 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:32543
DS_ID:21058
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to find pipe owner. Unable to determine status of crossing.
FIELD_STRUCT_DESC: Abandoned 8-inch steel pipe through the levee, 2.7 feet below the crown. Siphon breaker on apex of pipe at landward shoulder. Surge chamber at landward toe. Pump near waterward toe. Pipe exposed on landward side. (USACE-1959). Concrete platform 4 feet by 3 feet located on landward toe. 3-inch conduit runs along 8-inch steel pipe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90).
FS Date: 6/13/2013

LM Start	6.41	Rating **	M	Issue No.	139 (cont)
LM End	6.41	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_32543_59025.jpg



Overview of levee crown--multiple crossings within 50 foot stretch.

Photo 2 of 2 : UCIP_FA_2016_32543_59027.jpg



View levee crown at crossing.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	6.41	Rating **	M	Issue No.	148
LM End	6.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290356 °	38.290356 °
				-121.627349 °	-121.627349 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44748					
DS_ID:21027					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: 2 of 2: 4-inch steel pipe through the levee, 7.3 feet below the crown. (USACE-1959). Pipe visible on upstream side of wooden platform of WS slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90).					
FS Date: 4/23/2015					

LM Start	6.41	Rating **	M	Issue No.	148 (cont)
LM End	6.41	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_44748_73948.jpg



4-inch pipe connected to smaller galvanized iron pipe on WS slope.

Photo 2 of 2 : UCIP_FA_2016_44748_73947.jpg



Pipe visible on upstream side of wooden platform on the WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	6.67	Rating **	M	Issue No.	39
LM End	7.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.290473 °	38.285550 °
				-121.622768 °	-121.606283 °
DWR ID	DWR_RD0501_03_f_2016_39				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
RD needs to place bait stations along this stretch.					

No Photos

LM Start	6.81	Rating **	M	Issue No.	140
LM End	6.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290130 °	38.290130 °
				-121.620168 °	-121.620168 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32544					
DS_ID:21060					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Walkway missing but platform remain on the waterward side.					
FIELD_STRUCT_DESC: 12-inch pipe through the levee, 6.5 feet below the crown. Switch panel on waterward slope. Pump on pile structure in stream. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.30).					
FS Date: 6/13/2013					

Photo 1 of 2 : UCIP_FA_2016_32544_59034.jpg



View of waterward side. Support piles, conduit line, and pump visible on waterward side. Dense vegetation covers waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	6.81	Rating **	M	Issue No.	140 (cont)	
LM End	6.81	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.290130 °		38.290130 °
				-121.620168 °		-121.620168 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:32544						
DS_ID:21060						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Walkway missing but platform remain on the waterward side.						
FIELD_STRUCT_DESC: 12-inch pipe through the levee, 6.5 feet below the crown. Switch panel on waterward slope. Pump on pile structure in stream. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.30).						
FS Date: 6/13/2013						

Photo 2 of 2 : UCIP_FA_2016_32544_59033.jpg



View of standpipes located on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	7.22	Rating **	M	Issue No.	149
LM End	7.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.287837 °	38.287837 °
				-121.613453 °	-121.613453 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:46834

DS_ID:21061

EP_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 11/19/2015 DWR Inspector (H. Phillips) coordinated with LMA superintendent and the owner for this crossing is Walter Koeing, APN No. 042220040. According to LMA superintendent owner installed filter system with fence on landward side and fence around pump in 2012. Pipe not replaced in 2012, this pipe would be a good candidate for internal inspection since the installation date for this crossing was recorded as 1946.06/13/2013 Conduit visible on landward side; new gate on WS toe; filtration system with security fence; Pipe has been upgraded--need permit authorizing work and owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.

FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 3.7 feet below the crown. Siphon breaker and service pole on landward slope. 2-inch conduit runs parallel to 8-inch steel pipe. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.00).

FS Date: 6/13/2013

LM Start	7.22	Rating **	M	Issue No.	149 (cont)
LM End	7.22	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_46834_33471.jpg



Overview of levee crown.

Photo 2 of 2 : UCIP_FA_2016_46834_33468.jpg



Pipe connection after pump station.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

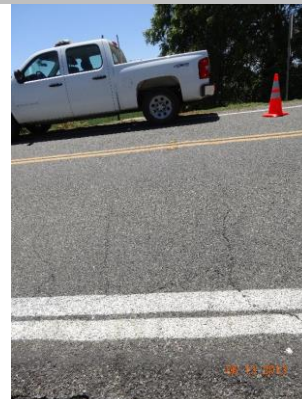
Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	7.59	Rating **	M	Issue No.	154
LM End	7.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.286153 °	38.286153 °
				-121.607959 °	-121.607959 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50025 DS_ID:21063 EP_NO: 11812 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 8/22/2016 Crossing has been downgraded from Urgent to Non-Urgent no levee damage appears to be present along pipe alignment. There appears to be an erosion site adjacent to this crossing. Need to coordinate with DWR Inspectors. (DWR UCIP - omagana)6/07/2013 Open cut section of levee on LS slope 8 foot wide--repair work needed. Abandoned pump on waterward berm. Dense vegetation--Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances on waterward side. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 14-inch steel pipe and 1.25-inch electrical conduit through the levee, both 3.0 feet below the crown. Cutoff wall around pipe and conduit at center of levee. Siphon breaker on apex of pipe at landward shoulder. Slant pump on waterward slope. Discharge structure at landward toe. Rock revetment on waterward slope. (Permit No. 11812-1976) FS Date: 8/22/2016					

LM Start	7.59	Rating **	M	Issue No.	154 (cont)
LM End	7.59	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_50025_59039.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_50025_59042.jpg



View of WS--pump located at the berm edge.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

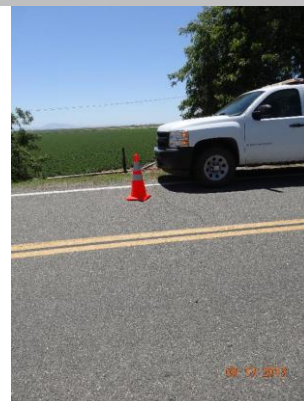
Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/19/2016 10/19/2016	Herman Phillips

LM Start	7.60	Rating **	M	Issue No.	141
LM End	7.60	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.286134 °	38.286134 °
				-121.607920 °	-121.607920 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32546 DS_ID:21064 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris (pipe section) located on waterward berm. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 2.7 feet below the crown. Pump in pump house at landward toe. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.20). FS Date: 6/13/2013					

LM Start	7.60	Rating **	M	Issue No.	141 (cont)
LM End	7.60	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_32546_59047.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_32546_59048.jpg



View of waterward side--dense vegetation limits visibility of 8-inch steel pipe. Pump belongs to another crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

Waterway			Bank	Unit Miles
Unit No. 04 Sutter Slough			Right	2.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/24/2016 - 3/24/2016		10/19/2016 - 10/19/2016	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Nicolas Zepeda RD 501		Nicolas Zepeda RD 501	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.00	Rating **	A/W	Issue No.	15
LM End	2.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.285418 °	38.254622 °
				-121.606028 °	-121.601385 °
DWR ID	DWR_RD0501_04_f_2016_15				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
RD is in process of mowing the landside slope working downstream.					

Photo 1 of 1 : FA_2016_RD0501_172_15_20161021_00029.jpg



RD 501 Unit 4 looking downstream from levee mile 0.00- 2.27 landside slope.

LM Start	0.00	Rating **	A/W	Issue No.	16
LM End	2.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.285418 °	38.254622 °
				-121.606028 °	-121.601385 °
DWR ID	DWR_RD0501_04_f_2016_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The RD is mowing the waterside levee slope of vegetation during this inspection.					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.54	Rating **	M	Issue No.	18
LM End	0.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278848 °	38.278848 °
				-121.601216 °	-121.601216 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:32547
DS_ID:21080
EP_NO: 18135
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Cracks visible on levee crown could be associated with pipe vibration or settlement. Burrow activity on landward side. Recommend removing vegetation along pipe alignment on landward side to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: 10-inch iron pipe through the levee, 3.5 feet below the crown. Cutoff wall around pipe at landward shoulder. Slant pump and pump house on waterward slope. Concrete standpipe and power pole at landward toe. Service pole on landward slope. Pipe exposed on both slopes. (Permit No. 2446-1957) Section of pipe under levee crown, between both shoulders, was removed and replaced with a 10-inch steel pipe under Permit No. 18135 (2006). Two crossings nearby 10-inch pipe and 8-inch pipe crossings are approximately 5 feet apart.
FS Date: 6/7/2013

LM Start	0.54	Rating **	M	Issue No.	18 (cont)
LM End	0.54	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32547_59050.jpg



View of levee crown.

Photo 2 of 2 : UCIP_FA_2016_32547_59051.jpg



Overview of waterward side--2 crossings located within 5 feet.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/19/2016 10/19/2016	Herman Phillips

LM Start	0.54	Rating **	M	Issue No.	19
LM End	0.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278831 °	38.278831 °
				-121.601213 °	-121.601213 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:32548
DS_ID:21079
EP_NO: 2446
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Permit documents indicate that pipe does not appear to be properly grouted. Crossing needs to be properly abandoned per CVFPB Title 23--need to find owner. Also recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: *ABANDONED* 8-inch steel pipe through the levee, 6.0 feet below the crown. Pump on waterward side. Steel plate welded on waterward end. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.60). Pipe was abandoned under Permit No. 2446 (1957). 10-inch steel pipe is located approximately 5 feet downstream.
FS Date: 6/13/2013

LM Start	0.54	Rating **	M	Issue No.	19 (cont)
LM End	0.54	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32548_59057.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_32548_59058.jpg



Overview of waterward side. Two crossings, 10 inch and 8 inch pipelines, less than 5 feet apart.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.04	Rating **	U	Issue No.	25
LM End	1.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.272053 °	38.272053 °
				-121.604176 °	-121.604176 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50021
DS_ID:21072
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 8/22/2016 Assume conditions at this crossing have remained the same--pipe wall is still deteriorating. Unable to locate crossing due to dense vegetation along both WS and LS slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - omagana)6/13/2013 Pipe has deteriorated--holes present on landward side. Need to contact owner. Unable to determine if crossing is still being used. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: *ABANDONED* 8-inch irrigation steel pipe through the levee, 2.7 feet below the crown. Pump is located on waterside (WS). Steel plate welded on WS end unable to confirm if plate is still present 2016. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual Unit No. 105, April 1959, (HLM 1.10)].
FS Date: 8/22/2016

LM Start	1.04	Rating **	U	Issue No.	25 (cont)
LM End	1.04	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50021_59065.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_50021_59066.jpg



View of levee crown at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.08	Rating **	M	Issue No.	20
LM End	1.08	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.271400 °	38.271400 °
				-121.604368 °	-121.604368 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32550 DS_ID:21073 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Unable to determine if the pipe goes through the levee. need As-Built drawings; Need owner information. FIELD_STRUCT_DESC: 1.5-inch conduit through the levee, 2.0 feet below the crown. Pole and anchor on landward slope. FS Date: 6/13/2013					

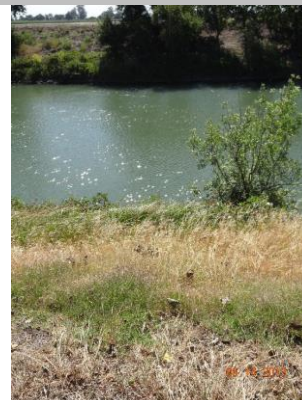
LM Start	1.08	Rating **	M	Issue No.	20 (cont)
LM End	1.08	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32550_59068.jpg



Levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_32550_59067.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.17	Rating **	M	Issue No.	21
LM End	1.17	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.270171 °	38.270171 °
				-121.604403 °	-121.604403 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:32551
DS_ID:21074
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Unable to determine status of crossing. Pipe visible on waterward side--could be the pipe that was supposed to be removed under permit number 13983 (1985). Also present is a 1.5 inch conduit along the 8 inch pipe. Need to coordinate with owner.
FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 6.4 feet below the crown. Pump on pile structure in stream. Service pole on landward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.30). Pipe should have been removed and replaced with 12-inch pipe under Permit No. 13983 (1985).
FS Date: 6/13/2013

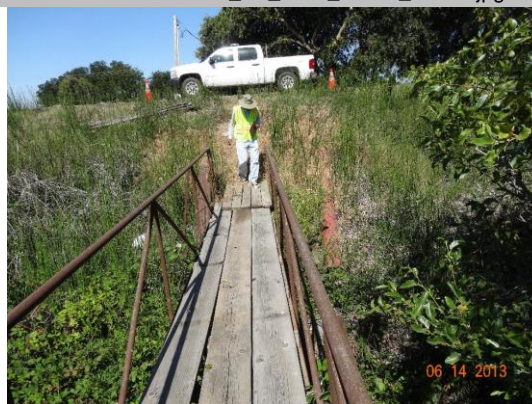
LM Start	1.17	Rating **	M	Issue No.	21 (cont)
LM End	1.17	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32551_59070.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_32551_59072.jpg



Abandoned pipe to the right of walkway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.17	Rating **	M	Issue No.	22
LM End	1.17	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.270156 °	38.270156 °
				-121.604403 °	-121.604403 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:32552
DS_ID:21095
EP_NO: 13983
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Abandoned pipe was to be removed during the installation of new 12-inch pipe crossing. Need to contact pipe owner. Unable to confirm crossing--need additional records for crossing.
FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 5.0 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Pump on pile structure in stream. Service pole on landward slope. Pipe connects to 10-inch steel pipe along the landward slope at the shoulder, and similarly to pre-existing 8-inch pipe on the waterward side. (Permit No. 13983-1985)
FS Date: 6/13/2013

LM Start	1.17	Rating **	M	Issue No.	22 (cont)
LM End	1.17	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_32552_59073.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_32552_59076.jpg



View of waterward side--walkway, pump, conduit, and pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.74	Rating **	M	Issue No.	24
LM End	1.74	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.262165 °	38.262165 °
				-121.601691 °	-121.601691 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44471					
DS_ID:21076					
EP_NO: 16906					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Crossing was running during site inspection. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.					
FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 2.2 feet below the crown. Pump on pile structure in stream. Concrete standpipe on landward side. Pipe is exposed on landward slope. (Permit No. 16906-1999) Two conduits present 3 inch conduit disconnected and 1.5 inch electrical conduit appears to be active.					
FS Date: 6/13/2013					

LM Start	1.74	Rating **	M	Issue No.	24 (cont)
LM End	1.74	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_44471_33491.jpg



Waterward side-pipe along slope.

Photo 2 of 2 : UCIP_FA_2016_44471_33495.jpg



Pipe section reduced at the waterward side daylight.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.80	Rating **	M	Issue No.	8
LM End	1.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.261283 °	38.261032 °
				-121.601488 °	-121.601635 °
DWR ID	DWR_RD0501_04_s_2012_8				
Comment Code					
V6 : Landscaping					
Inspector Comment					
This landscaping here need to be managed.					

No Photos

LM Start	1.86	Rating **	M	Issue No.	23
LM End	1.86	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.260407 °	38.260407 °
				-121.601365 °	-121.601365 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32553					
DS_ID:21077					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.					
FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 8.0 feet below the crown. 2 inch conduit goes through levee. Siphon breaker on landward slope. Pump on pile structure in stream. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.0).					
FS Date: 6/13/2013					

Photo 1 of 2 : UCIP_FA_2016_32553_59082.jpg



View of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/19/2016 10/19/2016	Herman Phillips

LM Start	1.86	Rating **	M	Issue No.	23 (cont)
LM End	1.86	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.260407 °	38.260407 °
				-121.601365 °	-121.601365 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:32553 DS_ID:21077 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 8.0 feet below the crown. 2 inch conduit goes through levee. Siphon breaker on landward slope. Pump on pile structure in stream. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.0). FS Date: 6/13/2013					

Photo 2 of 2 : UCIP_FA_2016_32553_59081.jpg



View of waterward side.

LM Start	2.15	Rating **	M	Issue No.	13
LM End	2.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.256275 °	38.255990 °
				-121.600933 °	-121.601015 °
DWR ID	DWR_RD0501_04_s_2012_13				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Thin out the trees along levee mile 2.15-22.17 and trim them up at least 5-foot above the ground.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/19/2016 10/19/2016	Herman Phillips

LM Start	2.16	Rating **	M	Issue No.	17
LM End	2.16	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.256225 °	38.256225 °
				-121.600903 °	-121.600903 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:32863
DS_ID:21078
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Broken concrete box on landward slope. Disturbed soil on waterward slope--unable to determine section disturbed. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterwar slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
FIELD_STRUCT_DESC: *ABANDONED* 6-inch and working 6-inch steel pipes through the levee, 2.5 and 5.0 feet below the crown, respectively. 1.5 inch electrical conduit through levee. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.30). Pipes are within 5 feet.
FS Date: 6/13/2013

LM Start	2.16	Rating **	M	Issue No.	17 (cont)
LM End	2.16	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_32863_59483.jpg



View of levee crown at crossing.

Photo 2 of 2 : UCIP_FA_2016_32863_59484.jpg



View of waterward side with dense vegetation along slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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